

**Defense Logistics
Management System
(DLMS)
Introductory Training**

**Module
5M**

Course Structure

Module 1 - Introduction to the DLMS

**Module 2 - Electronic Data Interchange
(EDI) Basics**

Module 3 - DLMS Implementation Strategy

**Module 4 - ASC X12 EDI Definitions and
Concepts**

Module 5 - DLMS EDI

Module 5F - DLMS Financial

Module 5M - MILS/DLMS Mapping

Module 6 - XML & Emerging Technologies

Module Structure

Module 5M - MILS/DLMS Mapping

- **MILS/DLMS Conversion**
- **Mapping Illustrated**
- **Mapping Concepts**
- **Automated Mapping Tools**
- **Mapping documentation**
- **Mapping steps**

Module 5M

Objectives

- **Students will gain a basic understanding of:**
 - ✓ **How to develop maps for DLMS logistics transactions**
 - ✓ **How to interpret data mapping results and errors**

MILS/DLMS Mapping

MILS/DLMS Conversion

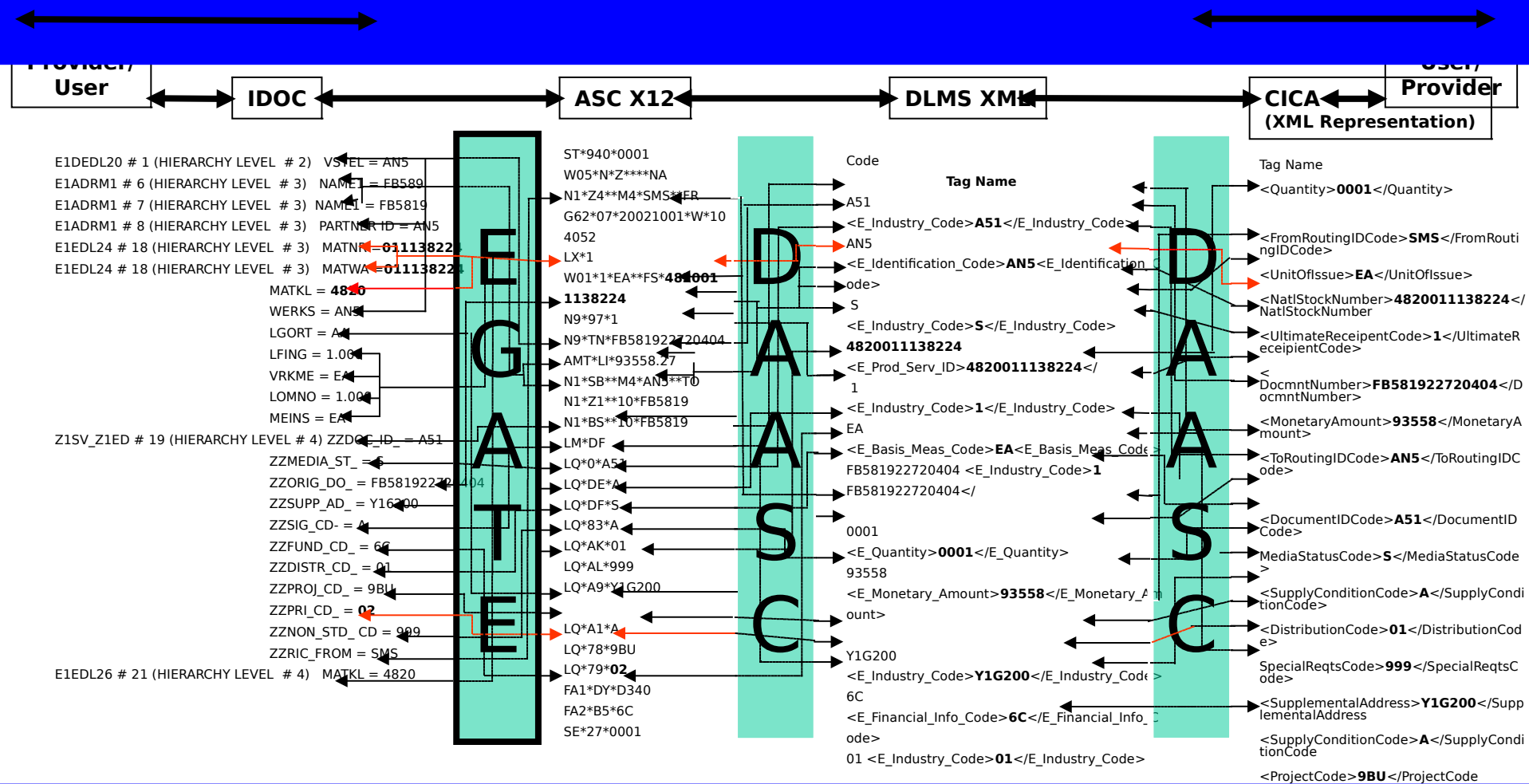
- **DAASC-developed program logic to accommodate conversion between MILS and DLMS**
- **Identifies data content and location within MILS and DLMS formats**
- **Reflects conditional data which impact data content and location**

Supply Chain Data Flow

Same Information Different

Transport Standards

WHAT'S DIFFERENT? WHAT'S THE SAME?



Data transfer media may change, but the data &

Mapping Concepts

- **Purpose:** To identify MILS data in different data transmission formats
- **DAASC** provides the MILS-to-X12 maps
- **DLMSO** provides X12-to-DLMS XML maps

The MILS Fixed Format Requisition

0102030405060708091011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465656

<u>RP</u> s	<u>Field Legend</u>	<u>RP</u> s	<u>Field Legend</u>
-------------	---------------------	-------------	---------------------

01-03 Document Identifier

04-06 Routing Identifier

07 Media and Status

08-22 Stock Number

23-24 Unit of Issue

25-29 Quantity

30-43 Document No

44 Demand

45-50 Supplementary Address

51 Signal

52-53 Fund

54-56 Distribution

57-59 Project

60-61 Priority

62-64 Reqd Delivery Date

65-66 Advice

67-69 Blank (Date of Receipt)

Referral/Passing Order

70-80 Blank (Intra-Service)

DAASC Transaction Map



DAASC Transaction Map (Con't)

Professional - [DAASC MAP TO 511.pdf]

Document Comments Tools Advanced Window Help

Find: Previous Next

511 REQUISITION
(A0[1,2,4,5,7,A,B,D,E]A05/YRZ, A0E/YRZ, CHA/CH/C0/CQ DLA BATCH DOCUMENTS)

Field Name	Record Position (DLSS)	Conditions	DLMS Data Element	Table	Updated
Transaction Set Identifier Code	None	None	ST01=511	1	
Transaction Set Control Number	None	None	ST02= Serial Number	1	
Beginning Segment	None	If RP1=A If RP1=U If RP1-2=A0 If RP1-2=AO and RP65-66=2J, 8G, 8H, 8J, or 8L and RP67-69≠Numeric If RP1-3=CHA or CH1 If RP1-2=C0 or CQ	BR01=00 BR01=77 BR02=A0 BR03=()CCYYMMDD BR06=RI BR06=FI BR06=J BR09=()HHMM	1	7/15/03
Ordered By	30-35	If RP1-2=A0 or CH and RP30≠B, D, K, or P	N101=OB N103=10 N104=RP 30-35 N106=FR	1 / 2	10/12/05
Ordered By	30-35	If RP1-2=A0 or CH and If RP30=B, D, K, or P and If RP35=1, A, C, D, H, K, L, P, R, or S (Build MAPAC X+RP31-RP32+RP33+00)	N101=OB N103=A2 N104=MAPAC N106=FR	1 / 2	10/12/05
Ordered By	30-35 & 45-47	If RP1-2=A0 or CH and If RP30=B, D, K, or P and if RP45=B, D, K, or P and RP31≠CN and RP46-47=AO (Build MAPAC RP45+RP31-32+W+00)	N101=OB N103=A2 N104=MAPAC N106=FR	1 / 2	10/12/05
Ordered By	30-35 & 45-47	If RP1-2=A0 or CH and If RP30 or RP45=B, D, K, or P and RP31-32≠CN and RP46-47=XW (Build MAPAC RP45+RP31-32+RP47+00)	N101=OB N103=A2 N104=MAPAC N106=FR	1 / 2	10/12/05
ICP	67-69	If RP1-3=CHA or CH1	N101=Z4 N103=M4 N104=RP 67-69	1 / 2	9/24/02

2 of 44

DLMS XML Map

SOURCE:		DAC TRANSACTION				
TS_I_MM_Wh_ISS01GR_GI_SARSS_Outbound_1_Map.doc						
FIELD LEGEND	POSITION(S)	ENTRY AND INSTRUCTIONS	DLMS 511R DS PAGE NUMBER	DS REF LOCATION	XML SCHEMA POSITION	XML SCHEMA
Document identifier code	1-3	Identifies type of message	22-24	2/LQ01-LQ02/1000	2745/1270 AND 2759/1271	2745/E_Code_List_Qualifier_Code = "0" 2759/E_Industry_Code = "DAC"
RIC (TO)	4-6	Identifies receiver	25-26	2/N101/1100 2/N103/1100 2/N104/1100 2/N106/1100	2804/98 AND 2821/66 AND 336/67 AND 2835/98	2804/E_Entity_Identifier_Code = DE 98 2821/E_Identification_Code_Qualifier = "M4" 336/E_Identification_Code = RP 4-6 2835/E_Entity_Identifier_Code = "TO"
Media and status code	7	Leave blank				
FSC	8-11	Material Group associated with Material	10-13	2/M1905/0200	630/235 AND 644/234	630/E_Product_Service_ID_Qualifier = "FS" or "MG" 644/E_Product_Service_ID = RP 8-22
NIIN	12-22	Material	10-13	2/M1905/0200	630/235 AND 644/234	630/E_Product_Service_ID_Qualifier = "FS" or "MG" 644/E_Product_Service_ID = RP 8-22
Unit of issue	23-24	alphabetic code in current	11	2/M1903/0200	603/355	603/E_Unit_or_Basis_for_Measurement_Code = RP 23-24
Quantity	25-29	Quantity of the item	11	2/M1902/0200	590/477	590/E_Credit_Debbit_Quantity = RP 25-29

Automated Mapping Tools

- **XML Spy (XML editor)**
- **Adobe PDF**
- **MS Word**
- **MS Excel**

Mapping Documentation

- **Applicable MILS format**
- **Service unique format**
- **DLMS Supplement (X12)**
- **DLMS XML schema**

Mapping Steps

- **Locate the MILS format via the DLSS/DLMS cross reference table on the DLMSO web site**
- **Compare the MILS format to Service unique format and document any deltas**
- **Document format entries into an MS Excel spreadsheet**
- **Locate the MILS data in the DLMS supplement using the DAASC map and record page numbers**

Mapping Steps (con't)

- **Locate the X12 data in the DLMS XML schema**
- **Send DLMS XML map to DAASC for QA**
- **Provide DLMS XML map to the requestor**

Mapping Exercise

- Use the mapping concepts taught, map the A0_transaction

End of Module 5M